

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

Supplementary Information to
LER 83-189/03 X-1

Mississippi Power & Light Company
Grand Gulf Nuclear Station - Unit 1
Docket No. 50-416

Technical Specification Involved: 3.8.1.2
Reported Under Technical Specification: 6.9. '3.b

Event Narrative

On December 7, 1983, at 1200 hours breaker 152-1704 from ESF transformer 12 to the Division 3 bus tripped. The HPCS diesel generator attempted to start but immediately tripped. The HPCS diesel generator was then declared inoperable. No Limiting Condition for Operation (LCO) was entered as the HPCS system was not required to be operable.

The cause of the breaker trip was due to a broken current limiter resistor socket for the breaker position indicating light. The socket shorted causing the trip coil to energize. The socket was accidentally broken during a changing of the bulb.

An extensive investigation into the diesel generator trip failed to identify the cause. Therefore, due to the undetermined cause of a failure to start from a bonafide automatic start signal, per Regulatory Guide 1.108 C.2.e.(1), the event was considered a valid failure and the test frequency was increased to 3 days.

On February 1, 1984, the HPCS diesel generator tripped again. The investigation revealed that a time delay relay required to be set at 60 seconds had drifted to approximately 6.5 seconds and allowed a premature lube oil pressure trip. The cause of the setpoint change was due to failure of the seals in the pneumatic relay. This event was reported in Special Report 84-005/0.

The relay, Agastat Model No. 7012, was replaced with an identical component and will be calibrated on an 18-month frequency.

Both trips are attributed to the low lube oil pressure trip which is bypassed in the LOCA emergency mode. Therefore the trips are considered invalid pursuant to Position C.2.e.(2) of Regulatory Guide 1.108. The number of current valid failures is one in the last 100. This is submitted as a final report.



MISSISSIPPI POWER & LIGHT COMPANY

Helping Build Mississippi

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

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March 12, 1984

NUCLEAR PRODUCTION DEPARTMENT

U.S. Nuclear Regulatory Commission
Region II
101 Marietta St., N.W., Suite 2900
Atlanta, Georgia 30303

Attention: Mr. J. P. O'Reilly, Regional Administrator

Dear Mr. O'Reilly:

SUBJECT: Grand Gulf Nuclear Station
Unit 1
Docket No. 50-416
License No. NPF-13
File: 0260/L-835.0
Update Report - Breaker 152-1704 to
the Division 3 ESF Bus Tripped -
HPCS Diesel Generator Failed to
Start
LER 83-189/03 X-1
AECM-84/0139

On December 7, 1983, at 1200 hours, breaker 152-1704 from ESF transformer 12 to the Division 3 bus tripped. The HPCS diesel generator attempted to start but immediately tripped. The HPCS diesel generator was then declared inoperable. Since the HPCS system was not required to be operable, a Limiting Condition for Operation was not entered. The event was reported pursuant to Technical Specification 6.9.1.13.b.

The cause of the HPCS diesel generator trip has been determined to be due to the failure of a time delay relay which allowed a premature low lube oil pressure signal. Therefore, since the cause of the failure to start has been determined and the low lube oil pressure trip is bypassed in the LOCA emergency mode, the failure is now considered an invalid failure pursuant to Regulatory Position C.2.e(2) of Regulatory Guide 1.108. This is a final report. Attached is LER 83-189/03 X-1 with Supplementary Information.

Yours truly,

L. F. Dale
Manager of Nuclear Services

EBS/SHH:rg
Attachment

cc: See text page

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MISSISSIPPI POWER & LIGHT COMPANY

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